

1. §15.247 (I) AND §1.1307 (B) (1), §2.1093 – RF EXPOSURE

1.1. Standard Applicable

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498 D01 Mobile Portable RF Exposure V04 , no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is $\leq 60/f(\text{GHz}) \text{ mW}$, the test reduction and test exclusion procedures given herein, or in KDB 616217 and its supplement or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz}) \text{ mW}$ or all measured 1-g SAR are $< 0.4 \text{ W/kg}$. When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

1.2. Test Result

Measurement Result:

The Max conducted output power = 11.78dBm

Antenna gain = 0 dBi

SAR exclusion threshold= $60/f=60/2.437=24.62 \text{ mW} = 13.91 \text{ dBm}$
 $>11.78\text{dBm}$

So the SAR measurement is not required.